

Supplementary Table S1. Primers for real-time PCR

Gene	Primer sequence	Size (bp)
GSH-Px	GCGGGAGCAGGACTTCTACGA	137
	CCCGATAGTGCTGGTCTGTGAA	
Mn SOD	TTACATAAGGAGCAGGGACG	234
	CAGTGTAAGGCTGACGGTTT	
Cu/Zn SOD	GAAGAGAGGCATGTTGGAGA	220
	CCAATTACACCACGAGCCAA	
CAT	AGATACTCCAAGGCGAAGGTG	120
	AAAGCCACGAGGGTACCGAAC	
ApoB100	GATACTCAGAACGGAGCAAT	223
	GCACCAATCAGATAACAGGA	
ApoE	TCCTGAATGACCTGGGTGTTG	217
	TCTGTGGGTTGCCGTGGTG	
MTP	CAGTTTGCAGCCTTGGTTCTG	201
	TCTGTGGGTTGCCGTGGTG	
LDLR	GCTGTTCTGCCTTCTCCTT	228
	ACTTTCTCCCCTGACCCTTG	
$\beta$ -actin	GCCCTGAGGCTCTCTTCCA	101
	GCGGATGTCGACGTCACA	

Supplementary Table S2. The activity of antioxidant enzymes

Enzymes	GSH-Px	SOD	CAT
AcAc concentration	(U/mg)	(U/mg)	(U/mg)
0 mM	68.43±6.2145 <sup>a</sup>	51.11±3.6464 <sup>a</sup>	12.86±1.0215 <sup>a</sup>
0.6 mM	61.43±5.6584 <sup>a</sup>	48.38±2.3948 <sup>a</sup>	11.28±0.9634 <sup>a</sup>
2.4 mM	40.43±3.2651 <sup>b</sup>	26.47±1.9499 <sup>b</sup>	8.88±0.7326 <sup>b</sup>
4.8 mM	33.91±3.2641 <sup>b</sup>	16.52±1.1532 <sup>c</sup>	6.24±0.2362 <sup>c</sup>

**Supplementary Table S2. Antioxidant enzymes in bovine hepatocytes.**

Hepatocytes were treated with 0, 0.6, 2.4 and 4.8 mM AcAc, respectively. The intracellular levels of the antioxidant enzymes GSH-Px, SOD and CAT were measured using commercial kits. The data are shown as the mean ± SEM. a, b and c, the same letter indicates no significant difference ( $P>0.05$ ), different letters mean a significant difference ( $P<0.05$ ).